

20000923.qrp v01_n953.qrl.20000923

Date: Sat, 23 Sep 2000 19:03:06 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1953

QRP-L Digest 1953

Topics covered in this issue include:

- 1) [80067] Nil on 80
by "bob baxter" <rbaxter@cybertrails.com>
- 2) [80068] [PROP] GREAT Weekend!
by "Paul Harden, NA5N" <na5n@rt66.com>
- 3) [80069] ANT- Need relay recommendations.
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 4) [80070] rig with only 15 components
by Jim Cluett <w1pid@yahoo.com>
- 5) [80071] [BI] humor: Handy Engineering Conversions (fwd)
by Chris Trask <ctrask@primenet.com>
- 6) [80072] Re: PHds and Filters
by "James R. Duffey" <jamesd1@flash.net>
- 7) [80073] Tiny Altoids Tins
by Richard Arland <k7sz@epix.net>
- 8) [80074] AT: VT 9/22/00 - just got home
by John Wagner <john@neknetwork.com>
- 9) [80075] Complete DXer - SOLD OUT - gone!
by "Steve/n0tu" <n0tu@webaccess.net>
- 10) [80076] Filter References Correction
by "James R. Duffey" <jamesd1@flash.net>
- 11) [80077] UPDATED Pacificon List 9/22
by "K7FD-N7SG" <cqdx@teleport.com>
- 12) [80078] Re: ANT- Need relay recommendations.
by "Bob Tellefsen" <n6wg@earthlink.net>
- 13) [80079]
by w6ors@juno.com
- 14) [80080] Dave NN1G WHERE ARE u
by hamjoel@juno.com
- 15) [80081] FW: WWV-Message
by "Ed Tanton" <n4xy@att.net>
- 16) [80082] Re: Nil on 80
by "bob baxter" <rbaxter@cybertrails.com>
- 17) [80083] NEED HELP !!!!!!!!!!!!!!!!!!!!!!!
by RangerSF5@aol.com
- 18) [80084] RE: Complete DXer - SOLD OUT - gone!
by JOHN FISHER <ve7fdg@mad.scientist.com>
- 19) [80085] 20.15.10m Beacon on air!

- by "Juan Antonio Lopez" <jalopezd@arrakis.es>
- 20) [80086] Clamping beam elements
by Goran Hosinsky <hosinsky@jet.es>
- 21) [80087] Complete DXer - I Have One, Do I Hear...
by "Chuck Carpenter" <w5usj@globeco.net>
- 22) [80088] RE: Good Idea from the new QRPP - Generating HV DC for Tube Rigs
- Testing the Inverter Concept
by Sam Billingsley <SBillingsley@usaninc.com>
- 23) [80089] Re: 30 day propagation forecast
by "James R. Duffey" <jamesd1@flash.net>
- 24) [80090] Re: 20.15.10m Beacon on air!
by Steve Yates <aa5tb@yahoo.com>
- 25) [80091] PVC as a mast: sched 40 v. 80
by KW1ND Mike <kw1nd@megalink.net>
- 26) [80092] Re: PHds and Filters
by "Russ Hines" <radioruss@fuse.net>
- 27) [80093] 44 Magnum project?
by Robert McAtee <w5tnj@camalott.com>
- 28) [80094] Re: PVC as a mast: sched 40 v. 80
by "Mike" <steam@corecomm.net>
- 29) [80095] QRP-L is Resonant
by Bob Kellogg <ae4ic@nr.infi.net>
- 30) [80096] PSK31 transmitter tuning aid?
by Rohn Blake <rohn@pubrats.com>
- 31) [80097] FS DIP OSC
by DONALD DORN <DDORN@CWIS.NET>
- 32) [80098] OT: Need hard drives
by "Ken Simpson" <W8EK@fdt.net>
- 33) [80099] Re: [KLQRP] QRP-L is Resonant
by George Gingell <k3tks@u1.abs.net>
- 34) [80100] FS. ELDICO GRID DIP METER
by "The One and Only!" <mitch96@pobox.com>
- 35) [80101] Re: PVC as a mast: sched 40 v. 80
by "George, W5YR" <w5yr@att.net>
- 36) [80102] Re: 80M PSK31
by "Dave Benson" <nn1g@earthlink.net>
- 37) [80103] Re: [KLQRP] QRP-L is Resonant
by Paul Stroud <aa4xx@ipass.net>
- 38) [80104] Re: PVC as a mast: sched 40 v. 80
by NB6M@aol.com
- 39) [80105] AL7FS Inbox died - WScript.KakWorm virus
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
- 40) [80106] HB - 455 KHz IFs transformers using toroids
by Slqghp@aol.com
- 41) [80107] FS EICO grid dip meter
by "The One and Only!" <mitch96@pobox.com>
- 42) [80108] Need help with TH 47 -A HT
by RangerSF5@aol.com

- 43) [80109] On the air 28715
by Tom M <tjmc@erols.com>
- 44) [80110] Tuber power supply
by K2UD@aol.com
- 45) [80111] FS - St. Louis Vertical - SD-20 & W6MMA Coil
by K9nk@aol.com
- 46) [80112] Re: HB - 455 KHz IFs transformers using toroids
by Pete Burbank <plburbank@kih.net>
- 47) [80113] Glows in the Dark... Mike W3IRZ
by "Bruce & Tosh Hopkins" <makai@grouper.batelnet.bs>
- 48) [80114] Re: HB - 455 KHz IFs transformers using toroids
by "Steven Weber" <kd1jv@moose.ncia.net>
- 49) [80115] Re: Tuber power supply
by "Steven Weber" <kd1jv@moose.ncia.net>
- 50) [80116] Tuna Tin Active Tonight / Radial Planting
by "Steve McDonald" <jsm@gulfislands.com>
- 51) [80117] wire/rope ant... need help
by hamjoel@juno.com

Date: Fri, 22 Sep 2000 15:59:17 -0700
From: "bob baxter" <rbaxter@cybertrails.com>
To: <qrp-l@lehigh.EDU>
Subject: [80067] Nil on 80
Message-ID: <001301c024e8\$dc12b500\$dc142aa2@bobbaxte>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Group, 80 meters, on #922 has suddenly quit me. I have the antenna tuner installed and that's where I'm losing the signal. I'm getting RF to K18 pin 2 but nothing on pin 3. The relay works normally on the other bands. The control voltage for K18 comes from pin 26 of the controller but voltage readings at that pin were inconclusive during band changes. I can't see anything band dependant in the ATU schematic. Anyone have any ideas? I'm on the digest so it will take a day to get to me. Bob Baxter AA7EQ Bisbee, Az.

Date: Fri, 22 Sep 2000 17:39:17 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-canada@lists.gpfn.sk.ca, qrp-l@lehigh.edu
Cc: gqrp@onelist.com
Subject: [80068] [PROP] GREAT Weekend!

Message-ID: <Pine.SUN.4.10.10009221718330.19000-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

An update synopsis for those of you unaware of where we are in the solar cycle:

The sun has been exceptionally quiet since the X6 flare on 14 July. The solar flux has remained below 200 for the past two solar rotations, leaving the upper bands rather mushy. However, the sun has perked up past few days with solar flux now well above 200 ... at 230 today (friday) with 235 forecasted for saturday and sunday. This level of solar flux is more than sufficient to do some major ionization of our E and F layers for very good skip propagation conditions on 20 through 10M over the weekend.

10M should be excellent for DX QRP contacts during local daylight hours
15M will be excellent, quiet, and open well after local sundown
20M should be open for DX 24 hours a day, with some noise and weak signals after local midnight.

The geomagnetic field is quiet with nothing really to threaten it over the weekend. Today's A-index was only 8 for very quiet conditions on frequencies below around 10MHz. The solar wind is around 450 km/sec, a bit high, but slowly dropping, meaning it won't perturb our magnetic field.

40 and 80M will support good QSO's late afternoon throughout the evening (dark) hours with DX contacts possible on 40M.

The high solar flux and quiet magnetic field means good condions on all bands, even for our friends in KL7, VE, VK, ZL, etc. Not only the ham bands, but the international shortwave bands are also excellent right now for those of you wanting to listen to LIVE (unlike US coverage!) of the olympics on several of the major shortwave stations. (For those outside of the US ... you might be interested to know all olympic coverage is broadcast after an 18 hour delay, or well after you can see what happened on the internet, causing huge criticism of the TV networks decision to do this and resulting in very poor viewership).

Another item of interest is solar region #9169 ... a HUGE region of sun spots and magnetic complexity. It is the largest sunspot region on the sun in 9 years! You can view the latest image of it at:
www.sec.noaa.gov/today.html

You can lineup 12 Earth's across this region. Of interest, is this area is capable of producing a huge solar flare, upper M class or X class.

Predictions for a major flare have been minimized due to the fact that the region has thus far been so quiet (except for raising the solar flux). However, it has all the characteristics of producing a very big flare should it feel so inclined. Even if this happens, the shockwave from the flare/CME would not strike earth until after the weekend, so even at this point, it really seems an excellent weekend on the bands.

Have a nice weekend everyone, and hope you work some interesting and exotic DX on the higher bands.

72, Paul NA5N

Date: Fri, 22 Sep 2000 18:48:45 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [80069] ANT- Need relay recommendations.
Message-ID: <0b8b01c024ef\$ab5c23e0\$0200000a@mcg.net>

Hi all,

I need several spdt relays to install in an outside box to switch antennas. Looking for something good to over 100W (I occasionally use QRO). This is for HF antennas only. I wish to switch between a 150 ft OCF wire, a vertical for 80 thru 10, and a spare coax connector for misc. antennas. I remember a Doug DeMaw article on this some time back, but I imagine there may be better relay choices. Has anyone in the group had experience using some inexpensive relays for this?

73 and thanks Cla KA0GKC

Date: Fri, 22 Sep 2000 16:55:26 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [80070] rig with only 15 components
Message-ID: <20000922235526.13300.qmail@web2006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Today I worked W2UW in Newark Valley, NY from my home QTH in New Hampshire. Glenn was using

a homebrew rig with only 15 components both xmtr
and rcvr! 20 MW on 40 mtrs. He powers it with a single
D cell. He was 559 here. What a blast.
He's written an article about this rig for 73
magazine. He's waiting for it to appear. This was one
of the most fun QSOs I've had in a long time.
73 de Jim W1PID

Do You Yahoo!?

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<http://im.yahoo.com/>

Date: Fri, 22 Sep 2000 16:58:49 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [80071] [BI] humor: Handy Engineering Conversions (fwd)
Message-ID: <Pine.BSI.3.96.1000922165638.28864A-1000000@usr05.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just got this list of technical humour from another email list:

----- Forwarded message -----

Date: Fri, 22 Sep 2000 18:42:03 -0400
From: Kenneth G. Samson
Subject: Handy Engineering Conversions

Ratio of an igloo's circumference to its diameter: Eskimo Pi

2000 pounds of Chinese soup: Won ton

1 millionth of a mouthwash: 1 microscope

Time between slipping on a peel and smacking the pavement: 1
bananosecond

Weight an evangelist carries with God: 1 billigram

Time it takes to sail 220 yards at 1 nautical mile per hour:
Knot-furlong

365.25 days of drinking low-calorie beer because it's less filling:
1 lite year

What's all this

High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Having said that, the fundamental mathematics and analysis behind filter design is pretty straight forward. The same equation describes the frequency response of many types of filters. A low pass filter can be described by:

$$V_{out}/V_{in} = 1/\text{SQRT}[(1-Kf(w/w_c))]$$

w is the frequency of interest, w_c is the cutoff frequency, K a constant and f(w/w_c) the function that describes the shape of the frequency response of the filter. The appropriate f(w/w_c) will give you a Butterworth, Bessel, Chebychev, Gaussian, or whatever response. if w/w_c appears squared in f(w/w_c) then it is a second order filter, if it is cubed it is third order, and so forth. For a Butterworth filter f(w/w_c) is (w/w_c)²ⁿ where n is the order of the filter.

Similarly the schematic diagram for all of the different types of low pass fiilters are the same, only the component values are changed to go from Bessel, to Butterworth, to Chebychev and so forth.

I agree with you on the graphs in Zverev. I too find them the most useful part of the book, but then I am a very visual thinker. These days those graphs are easy to duplicate on a graphing calculator, or computer math program. I use my daughter's HP-48, my other daughter's TI-83, the Graphing Calculator desk accessory on my Mac, or MathPad, a free Mac application. There are probably similar programs for the PC.

I think that analysis should complement bench work. You can't do effective design without both.

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 23 Sep 2000 00:36:21 -0400
From: Richard Arland <k7sz@epix.net>
To: Eastern PA QRP Club <epaqrp-l@Lehigh.EDU>, QRP List <qrp-l@Lehigh.EDU>, QRP ARCI LIST <qrp-arci@listbot.com>
Subject: [80073] Tiny Altoids Tins
Message-ID: <39CC3345.FD24D0FA@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Our local CVS pharmacies in the Northeast have, once again, started carrying the tiny (2.5 x 1.5 x .6 in) Altoids tins. These are great for things like the Knight SMiTe, NoGANaut and Snap projects. There was a "dry spell" of about 9 months around here where you couldn't get them. I just found out today that CVS has started carrying them again.

73 Rich K7SZ

Date: Fri, 22 Sep 2000 21:05:40 -0400
From: John Wagner <john@neknetwork.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [80074] AT: VT 9/22/00 - just got home
Message-ID: <39CC01E4.A4154622@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just got in from my outing on the AT in Norwich, VT with Tim N1RZ. We had a blast, met Mr. Murphy a few times and made some great QSO's once the spit, gum and bailing wire all dried. Tim took some digital pictures which I'll post an URL to and our (short) logs. I want to write a bit more about the trip, but I'm bushed (1:45 min drive North to my QTH) and my XYL doesn't have that understanding look on her face that I've come to know and love ... ;)

73,

John, KB1ENS

--

John Wagner - john@neknetwork.com
Web page: <http://www.neknetwork.com>
Personal Web page: <http://www.together.net/~jwag>

Date: Fri, 22 Sep 2000 19:42:05 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [80075] Complete DXer - SOLD OUT - gone!
Message-ID: <000b01c024ff\$7afaefa0\$d208710f@sg2939h.col.hp.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

Bob Locher's book is unavailable from most sources. I've tried Amazon they say they can't find any more. I tried the used sources on the web as well. Anyone care to loan or sell their copy? Steve/n0tu

Date: Fri, 22 Sep 2000 19:47:07 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [80076] Filter References Correction
Message-ID: <B5F167BA.2A60%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

All - It has been called to my attention that the Handbook material on filters has been done by Reed Fisher, W2CQN since 1995, not Ed Wetherhold as I stated.

Sorry for the mixup. - Duffey

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Fri, 22 Sep 2000 18:40:06 -0700
From: "K7FD-N7SG" <cqdx@teleport.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80077] UPDATED Pacificon List 9/22
Message-ID: <003801c024ff\$34f7f660\$54231ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

TGIF!

If you would like to be on the 'I'm going to Pacificon' list, drop me an email directly. An updated list will be reposted next Friday.

Have a good weekend (they say band condx are going to be great)!

73, John K7FD
Pacificon Convention info -> <http://www.pacificon.org/>
Pacificon QRP Events info ->
<http://www.fix.net/~jparker/norcal/pacificon00/pacificon00.htm>

AA10F Jerry

AK1P Paul
AB5PC Dave
AB6MB Jeff
AC6AN Ori
AC6KW Jeff
AD6A Dave
AD6CW Jim
AD6DI Casey
AD6GI Chuck
G3MFJ Graham
G4WIF Tony
K1MG Mike
K4NK Les
K6EXT Ron
K6HCJ Marv
K7FD John
K7GT Allan
K7QO Chuck
K7TQ Randy
KD7S Bill
KA5DVS James
KD6ANH Lerma
KE6JJJ Jeremy
KE6MRH Robin
KE6RS Ron
KF6IHU/9 Christian
KG6WU Ed
KI6DS Doug
KI7FQ Mike
KK7GG Mike
N2APB George
N2PTW Joyce
N6KR Wayne
N6WG Bob
NA6E Mary
NB6M Wayne
N7SG Annette
N7VE Dan
N7XJW Bertie
NK7M Bob
NQ7K Mike
NF0R Dave
W5JAY Jay
W6ABC Jack
W6AGS Arth
W6EMD Dave
W6MMA Vern
W6YBS Judy

WA6GER Jim
WA6HHQ Eric
WA6MER Mike
WA6OWR Jerry
W7AQK Dave
W0MC Jerry
WA7SPY Glenn
WI8W Thom
WT6P Mark

Date: Fri, 22 Sep 2000 19:30:23 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [80078] Re: ANT- Need relay recommendations.
Message-ID: <005d01c02506\$3a2971c0\$42d6fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Cla

You didn't mention whether all your switching would be done at a low Z point in the antenna system. Assuming it is, I suggest the following.

Potter and Brumfield have an extensive line of relays. I think what you need are some DPDT relays with round power-contactor style contacts, rather than the smaller wedge or half round contacts you see on smaller relays. I often see these in the ham flea markets.

I would hook up the relay as follows.

Input to one of the moving contact arms. A short wire connection between the two fixed contacts on the same side of the relay, then output from the remaining moving contact arm.

The idea is to put the two contacts in series for better isolation and breakdown voltage protection.

I would use some form of rf choking on the dc leads to the relay also, whether a bifilar winding on a ferrite form, or separate rf chokes and bypass caps, whatever.

Hope this gives you some ideas, Cla.

73, Bob N6WG

Date: Fri, 22 Sep 2000 14:33:21 -0500
From: w6ors@juno.com
To: qrp-1@Lehigh.EDU
Cc: kh6ors@hotmail.com
Message-ID: <20000922.164919.-355589.3.w6ors@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

9-22-00

Have become the proud possessor of a Gertsch FM-3, 20-1000MC Signal Generator. I've tried all the sources I know to find a schematic\owners manual without success.

Does someone have a copy that I could borrow and have a copy made? Would really appreciate it.

73,

Corky W6ORS
Hilo HI
w6ors@juno.com

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<http://dl.www.juno.com/get/tagh>.

Date: Fri, 22 Sep 2000 23:02:19 -0400
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [80080] Dave NN1G WHERE ARE u
Message-ID: <20000922.230221.-308335.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

hIGH thair Folk

I got on eighty meter psk31 again tonite and heard nn1g talking to wa3rey then to kh6ty... on about 3 watts ... whatta signal Dave...

Well, I wiggled and jiggled things on my k2 but uncle Dave would not answer...So I called cq and talked with paul in rhode island, where ever that is... hee hee.... now i'm hearing some rtty signals... will see iffin I can work them in a bit....

kinda discouraging not getting to work Dave... as he be's a qrp
inspiration figure u kneaux... hard as I worked at it I an't been nuttin
but a persperation figure :-)

Oh folk, them bees... hornets, yellow jackets stilll bees thair in the
tree... was gonnna tackle them but decided it was better to go fishing so
I did.. Found some channel marker bouys that should hold up an antenna
just fine... was gonna think about that some but the fish started biting
and my mind changed to fishing....

see ya.. hey Dave!

ke1la joel

in maine

afraid of the coming cold

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 22 Sep 2000 23:09:40 -0400

From: "Ed Tanton" <n4xy@att.net>

To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>

Cc: "CW Reflector" <cw@qth.net>

Subject: [80081] FW: WWV-Message

Message-ID: <CKEGICNFDIMCEKEDCEHFIEKKECAA.n4xy@att.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="us-ascii"

Content-Transfer-Encoding: 7bit

Check THESE NRs folks... Paul's predictions were right on the mark!!!

Sent: Friday, September 22, 2000 11:01 PM

To: www-list-send@dawn.sec.noaa.gov

Subject: WWV-Message

:Issued: 2000 Sep 23 0301 UTC

Prepared by the U.S. Dept. of Commerce, NOAA, Space Environment Center.

#

Geophysical Alert Message

#

Solar-terrestrial indices for 22 September follow.

Solar flux 232 and Boulder A-index 6.

The Boulder K-index at 0300 UTC on 23 September was 1 (8 nT).

Solar-terrestrial conditions for the last 24 hours follow.
Solar activity was low.
The geomagnetic field was quiet.

The forecast for the next 24 hours follows.
Solar activity will be low to moderate.
The geomagnetic field will be quiet to unsettled.

Date: Fri, 22 Sep 2000 20:14:38 -0700
From: "bob baxter" <rbaxter@cybertrails.com>
To: <rbaxter@cybertrails.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80082] Re: Nil on 80
Message-ID: <002601c0250c\$69cdbca0\$dc142aa2@bobbaxte>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry Guys --sent it to the wrong list. Bob

Date: Fri, 22 Sep 2000 23:18:16 EDT
From: RangerSF5@aol.com
To: qrp-1@lehigh.edu
Subject: [80083] NEED HELP !!!!!!!!!!!!!!!!!!!!!!!
Message-ID: <9d.b0a21e2.26fd7af8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I Gang,
I'm working on a Kenwood TH-47-A 440 HT.
About 7 years old.
The antenna wire broke away from the PC board.
I have no paper work and cannot find where the wire is soldered to the PC board.
This wire is only an inch long and I searched for an hour with in reach of that wire on all the small boards.
No luck finding the old cold solder joint. Anyone know where this wire goes?
Many thanks in advance
Bob
WA2HOQrp <TM>

Date: Sat, 23 Sep 2000 02:36:42 -0400 (EDT)
From: JOHN FISHER <ve7fdg@mad.scientist.com>
To: n0tu@webaccess.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [80084] RE: Complete DXer - SOLD OUT - gone!
Message-ID: <383620435.969691003732.JavaMail.root@web443-mc.mail.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

You might have to buy a book this good from an estate-good luck

JOHN

-----Original Message-----

From: "Steve/n0tu" <n0tu@webaccess.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: September 23, 2000 1:42:05 AM GMT
Subject: Complete DXer - SOLD OUT - gone!

Gang,

Bob Locher's book is unavailable from most sources. I've tried Amazon they say they can't find any more. I tried the used sources on the web as well. Anyone care to loan or sell their copy? Steve/n0tu
ve7fdg@mad.scientist.com
2137 duggan rd
nanaimo bc V9S 5N9
canada

FREE Personalized Email at Mail.com
Sign up at <http://www.mail.com/?sr=signup>

Date: Sat, 23 Sep 2000 07:52:04 +0100
From: "Juan Antonio Lopez" <jalopezd@arrakis.es>
To: "Low Power Radio Amateur Discussion" <qrp-l@Lehigh.EDU>
Subject: [80085] 20.15.10m Beacon on air!
Message-ID: <006901c0252b\$b2ce3bd4@pc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Experimental Beacon on air either 20-15-10m 1 Watt.,

Hi to all,

I just put a beacon test on 20-15-10 m. It'll be on air on any frequency, depending on a minimum propagation detected from this QRA Locator: IL18UL

QRG: 14065 KHz

TX: HW-9

PWR: 1W

Ant: Vertical Fritzel 4 bands (2 coils)

Memory Key: Kempco KP-200

SWR antenna without tuner: 1.4:1

Tuner-wattmeter: MFJ-971, min scale 1-6 (when dash, read 1W)

Feed-line: 15m RG-213/U (specifications - Mil)

Frequencies: +/- 14065 - +/- 21065 - +/- 28065, depending of detected QRM from this location.

QRA Locator: IL18UL

I'll tks any RST RPRT on this list or to e-mail jalopezd@arrakis.es

Greetings from Tenerife and 72

Juan Antonio, EA8QJ

Sitio Web Personal URL: <http://www.geocities.com/jalopezd>

[Mailto:jalopezd@arrakis.es](mailto:jalopezd@arrakis.es)

Date: Sat, 23 Sep 2000 09:16:32 +0000

From: Goran Hosinsky <hosinsky@jet.es>

To: qrp-1@lehigh.edu

Subject: [80086] Clamping beam elements

Message-ID: <39CC74F0.BA4A01EB@jet.es>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi,

I am rebuilding my Sommer beam which has been up for about 15 years. The original clamping between one aluminum tube and the next in the element is done with a special clamp having a screw going through a hole in the outer tube pressing on the inner tube. This system has worked loose and is probably a source of bad contacts.

I am thinking of slitting the tube end with a metal saw and then using a normal stainless steel hose clamp to press the tubes together. Is that a good solution?

I will use a aluminum contact grease between the tubes to avoid oxidation. Somewhere I have seen a recommendation on winding the tube juncture with tape to protect the the grease. Is that a good idea?

Saludos

Goran ea8yu La Palma Island, Canary Islands

Date: Sat, 23 Sep 2000 07:29:20 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: n0tu@webaccess.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80087] Complete DXer - I Have One, Do I Hear...
Message-ID: <3.0.2.32.20000923072920.006922c4@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP DXers,

I have a copy I bought in the early 80s. It's in pristine condition and I can find only two places where I marked spelling errors (in pencil).

I think 15 bux would be a good price including shipping con US.

Chuck Carpenter, EM22cv, Point, Rains County, Texas

Date: Sat, 23 Sep 2000 09:00:22 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "_AAAA_NOGA_onlist (E-mail)" <nogaqrp@qth.net>, "Klqrp_Submit (E-mail)" <klqrp@applegate.org>, "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [80088] RE: Good Idea from the new QRPP - Generating HV DC for Tube Rigs
- Testing the Inverter Concept
Message-ID: <058CBAE0931FD411B70E00805FCD5D4241A3A1@mailserver2.usan.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Here's a quick report on my testing Sat. morning. I have a one tube

TX that currently uses a 150V AC secondary and 6V AC filament winding. With I and a simple RC type filter I get about 500mW to the antenna on 80 meters.

The test was to see if the DC-to-AC inverter could be used directly to replace the current transformer HV AC winding.

The only DC-to-AC inverter I have is a 350W Vector from RadioShack.com. It's a standard commercial unit with a metal case and some heat sinking fins on the sides.

Here's the test steps I did:

1. Wire up an extension cord with 30K ohm resistor across leads and plugged it into the inverter.
2. Looked at the output on old HP scope I have. See a square wave and 60 Hz freq at about 100V AC levels. Clean shape.
3. Moved the resistor dummy load right next to an insulated longwire antenna leadin and tuned around the BC and HF spectrum with an ICOM756. BTW the ICOM has an internal Spectrum display to watch as you tune. Very helpful. No hash was noted. In fact my local lights put out more junk.
4. Clipped the HV AC winding in the tube TX and clipped the inverter output in place of the HV AC transformer winding.
5. The DC output of the RC filter with the inverter operating looked the same as with the transformer.
6. Setup the TX with dummy 50ohm load and NOGAWatt and key TX. Same output to Scope and Spectrum Analyzer (Hayward/White S.A. kit). All noise was down at about the -50 dBm level. DC voltage remained steady under keying conditions.

SO the basic inverter should be useable for generating an isolated 100 -110v AC. BTW that's why I was interested in this. To build an isolated HV source so that grounding could be done to the rig as normally was available with a transformer. Having been shocked many times of the years with my Ocean Hopper AC/DC Regen operating in a damp basement I like to ground things.

=====

I did a quick test on the autotransformer concept. I only had a small transformer that is a PCB mount type designed to have two 10 volt output windings. There are two independent 110V AC windings that can be wired so you can use a 110V or 220V AC source. So if you wire the inverter to one of these primary windings and phase in properly the other 110V AC winding you can get 220V AC across the entire autotransformer. Most QRPers will not

need this higher AC voltage to do tube experiments since the 150V DC does well for many simple low power tube types.

Good luck with your experiments and PLEASE BE CAREFUL. If you have been working with 12VDC for awhile you forget (if you're old like me) or you may have never worked with the higher lethal voltages.

Sam Billingsley AE4GX Atlanta, GA NOGA QRP club

>>>>>snip>>>>>

> There is an article in the new NORCAL QRPP Journal this quarter that is a
> construction article for a tube transmitter. The transmitter itself is not
> unique but the method of generating the HV DC voltage is very interesting
> to me.

>

> He uses a simple DC-to-DC converter module. Looks like he built it from
> scratch but I was thinking that the same thing could be accomplished with
> a commercial low wattage DC-to-AC inverter and a simple diode and filter
> system between it and the tube rig.

>

> I'm going to try it this weekend and will let you know. I was thinking if
> you used a centertapped transformer designed to give you a choice of
> 110/220 V AC then you could make an autotransformer and generate 220 -
> 250V AC then rectify it if you want higher voltage on the plates.

>

> This should solve the stumbling block of many folks trying to find old HV
> AC transformers and it is simpler and cheaper than than a back-to-back
> filament transformer idea if you happen to have a low wattage DC-to-AC
> inverter in the shack. You do have one right?

>

> Sam Billingsley AE4GX Atlanta, GA North Georgia QRP Club

>

Date: Sat, 23 Sep 2000 07:35:27 -0600

From: "James R. Duffey" <jamesd1@flash.net>

To: Goran Hosinsky <hosinsky@jet.es>, qrp-l <qrp-l@lehigh.edu>

Subject: [80089] Re: 30 day propagation forecast

Message-ID: <B5F20DBE.2A72%jamesd1@flash.net>

Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

Goran - The thirty day propagation forecast that I posted to QRP-L, daily propagation forecasts and summaries, as well as weekly summaries, and notes

explaining it all are part of the propagation reflector. You can subscribe by following the instructions below:

To subscribe to the prop reflector, send the word "subscribe" (don't use the quotes) in the SUBJECT or BODY of the message to the following address:

prop-request@lyris.digimark.net

I find it very useful, and occasionally there will be other posts of propagation interest on the list.

Let me know if you have any further questions. - Doffey

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 23 Sep 2000 06:58:51 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [80090] Re: 20.15.10m Beacon on air!
Message-ID: <20000923135851.2483.qmail@web3001.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Juan,

It will be very interesting to try and hear your beacons. Thanks for your work.

What times are you beacons active since I assume they are manually controlled beacons? In the US at least the only beacon band for automatically controlled beacons on HF is 28.2-28.3 MHz with the exception of 14.100 MHz with certain permission as I understand it. Of course things may have changed since my rule book.

Then again, your rules may be different in your country.

=====

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://www.geocities.com/aa5tb>

aa5tb@arrl.net

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.

<http://im.yahoo.com/>

Date: Sat, 23 Sep 2000 10:09:08 -0400

From: KW1ND Mike <kw1nd@megalink.net>

To: qrp <qrp-1@Lehigh.EDU>

Subject: [80091] PVC as a mast: sched 40 v. 80

Message-ID: <4.3.2.7.2.20000923095650.00a98980@mail.megalink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Greetings:

I've read the many accounts of schedule 40 PVC being as useful as spaghetti once raised on end as an antenna mast. Many listers have recommended schedule 80 as an alternative. I was considering using chain link top rail for the mast, with PVC for the top 10 feet, but that might be too heavy.

1) Is schedule 80 stiff enough to use to 30 or (preferably 40) feet? I plan to guy it at the top, and possibly around the 20-foot level as well.

2) Is there a variety of schedule 80 that has flared ends, as opposed to having to use couplings? I just picture the flares being stronger than couplings.

3) Does it come in white only, or is it available in that lovely conduit grey?

My intention is to plant it in a chain-link fence corner post in the middle of the back yard, and raise up a ladder line-fed 40-meter inverted V off it. I may also run a 1/4-wavelength chunk of 12 or 14 ga. wire up the side (with appropriate radials) and use it as a simple coax-fed vertical.

73,

Mike Boice, KW1ND
Lisbon Falls, Maine FN44xa

Date: Sat, 23 Sep 2000 10:32:58 -0400
From: "Russ Hines" <radioruss@fuse.net>
To: <jamesd1@flash.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80092] Re: PHds and Filters
Message-ID: <007901c0256b\$2c262680\$5a4244d8@rbhines>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That's interesting. I have two PHD's.

They're in my garage right now. Very useful. Can't set a fence post
without a Post Hole Digger. ;-)

73,
Russ
WB8ZCC

----- Original Message -----
From: James R. Duffey <jamesd1@flash.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Friday, September 22, 2000 8:31 PM
Subject: Re: PHds and Filters

> Bruce and all - I'm one of those PhDs that your mother, er Bruce, warned
> you
> about. While not specifically in the electronics field (My speciality is
> solid state Physics - infrared detectors and focal plane arrays), I have
> worked with lots of electronics designers who built and designed the stuff
> my detectors were hooked to. And, in what may be the height of corporate
> folly in America, my company made me supervisor of three electronic
> designers!
>
> I have worked with the entire spectrum of designers, from those who do all
> design work in a computer, to those who do all their design work on the
> bench. In my experience, the best designers are those who use theory and
> modeling to complement prototype work on the bench. I don't think you can
> design electronics without some sort of prototype work and I know you
can't

> design efficient electronics to specifications without understanding the
> theory and doing at least some analysis to complement the bench work.
>
> Having said that, the fundamental mathematics and analysis behind filter
> design is pretty straight forward. The same equation describes the
frequency
> response of many types of filters. A low pass filter can be described by:
>
>
$$V_{out}/V_{in} = 1/\text{SQRT}[(1-Kf(w/w_c))]$$

>
> w is the frequency of interest, w_c is the cutoff frequency, K a constant
> and f(w/w_c) the function that describes the shape of the frequency
response
> of the filter. The appropriate f(w/w_c) will give you a Butterworth,
Bessel,
> Chebychev, Gaussian, or whatever response. if w/w_c appears squared in
> f(w/w_c) then it is a second order filter, if it is cubed it is third
order,
> and so forth. For a Butterworth filter f(w/w_c) is (w/w_c)^{2n} where n is
the
> order of the filter.
>
> Similarly the schematic diagram for all of the different types of low pass
> fiilters are the same, only the component values are changed to go from
> Bessel, to Butterworth, to Chebychev and so forth.
>
> I agree with you on the graphs in Zverev. I too find them the most useful
> part of the book, but then I am a very visual thinker. These days those
> graphs are easy to duplicate on a graphing calculator, or computer math
> program. I use my daughter's HP-48, my other daughter's TI-83, the
Graphing
> Calculator desk accessory on my Mac, or MathPad, a free Mac application.
> There are probably similar programs for the PC.
>
> I think that analysis should complement bench work. You can't do effective
> design without both.
>
> --
> James R. Duffey KK6MC/5
> 30 Casa Loma Road
> Cedar Crest, NM 87008
>

Date: Sat, 23 Sep 2000 09:35:46 -0500
From: Robert McAtee <w5tnj@camalott.com>

To: qrp-1@Lehigh.EDU
Subject: [80093] 44 Magnum project?
Message-ID: <3.0.3.32.20000923093546.007b8220@mail.camalott.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jim I imagine it was frowned on by Clinton, Brady, ATF, FBI & etc. Can you just see a young ham bringing his 44 mag rig in to school for show and tell?
==Mac== AG5F, Abilene, TX.

Hi All,

What happened to the 44 Magnum project? It was to be an entry level kit as I remember. Is it on a back burner for now or has it been dropped??

Jim WD40JY
Manassas, VA

Date: Sat, 23 Sep 2000 09:41:38 -0500
From: "Mike" <steam@corecomm.net>
To: <kw1nd@megalink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80094] Re: PVC as a mast: sched 40 v. 80
Message-ID: <005701c0256c\$de6db000\$18cfd6d8@megsinet.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I was considering using chain link top rail=20
> for the mast, with PVC for the top 10 feet, but that might be too =
heavy.
>=20
> 1) Is schedule 80 stiff enough to use to 30 or (preferably 40) feet? =
I=20
> plan to guy it at the top, and possibly around the 20-foot level as =
well.

Yes, and the guying will certainly be needed
>=20
> 2) Is there a variety of schedule 80 that has flared ends, as opposed =
to=20
> having to use couplings

Yes. We use the gray with flared ends for electrical conduit. sch 40 or =

> 3) Does it come in white only, or is it available in that lovely =
conduit grey?

Comes in grey. I've never used white. I think white is used more for =
water.

Good luck... Mike

```
<>< ><> ><> <>< ><> <>< ><> <>< ><> <>< ><
      Mike Pender   Chicago   N9IV0
  steam@corecomm.net  http://www.corecomm.net/~steam =20
><> <>< <>< ><> <>< ><> ><> <>< ><> ><> <>
```

```
-----
Date: Sat, 23 Sep 2000 10:39:54 -0400
From: Bob Kellogg <ae4ic@nr.infi.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: KLQRP Reflector <klqrp@applegate.org>
Subject: [80095] QRP-L is Resonant
Message-ID: <39CCC0BA.31821AE0@nr.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Guys,

Forgive me, but I just have to say --- what a great response to my
question on Resonance! I received notes from the real experts, the
true leaders and Elmers of QRP-L. (and KLQRP) I've thanked most of
them individually, but just in case I missed someone, this note is a
"Thank You!" to the collective wisdom on QRP-L.

This information was from those who have "been there and done that".
They covered the proper and improper ways to use a Grid Dip
Oscillator. They discussed the best Models of GDOs. They pointed to
modern GDO circuits. We even saw a collection of GDOs.

In addition, there are methods of determining resonance without a GDO:
Using a signal generator and an RF detector, such as a scope, RF probe
or General coverage receiver.

Using an Antenna Analyzer, such as the MFJ 256, or the Autek RF-1.

They mentioned some "tricks" to get more accurate readings. Measuring antenna resonance in the field. Measuring resonance in parallel circuits -VS- series circuits. Measuring resonance of coaxial cable antenna traps.

The response was so comprehensive, I wish it could be compiled somehow. It would make an excellent article, "Determining Resonance" or even a chapter in a book. (I've thought about summarizing it myself, except it's not my work)

Now, I've got my work cut out for me. I have a bunch of circuits, coils and capacitors, plus some coax antenna trap materials on my workbench. I'm slowly working through the stack, trying the various methods of determining resonance, noting consistencies and inconsistencies. When I get through, I'll know something about resonance and how it's measured!

Thanks again to all.

--

73,

Bob Kellogg, AE4IC, Greensboro, NC
Probably, not necessarily. - Benny Hill

Date: Sat, 23 Sep 2000 10:58:00 -0400 (EDT)
From: Rohn Blake <rohn@pubrats.com>
To: qrp-l@lehigh.edu
Cc: psk31@bipt106.bi.ehu.es
Subject: [80096] PSK31 transmitter tuning aid?
Message-ID: <Pine.LNX.4.10.10009231042410.13626-100000@tavern.pubrats.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I dunno. Just thinking out loud mostly...

One of the issues that seems to continue is how to properly adjust your "stuff" to be sure of the cleanest PSK31 signal without all the splatter. You have to rely (after a point) on a receiving station's report, instead of getting it super clean to begin with on your own.

Could the ideas used by the new nifty Morse->PSK31/PSK31->Morse rig by George Heron, N2APB, be revamped a little to create a transmitter tuning aid? Could it be made to be a receiver only, and blurb out the IMD values of the received signal either via morse or the LCD?

I know nothing more of George's transmitter than what I've read on QRP-L, just wondering if the basic ideas (not the rig itself) could be used to a degree to fashion an inexpensive aid.

Would an absolute perfect setup for one frequency translate without adjustment to another? to another band? So then could the tuning aid be made to be a single freq receiver? How much protection would have to be built in to prevent erroneous results because of the physical closeness to the transmitter? (George, would you be building this into your little already?)

Thanks for letting me think ;-)
72 de Rohn, KR0HN

Date: Sat, 23 Sep 2000 10:01:23 -0500
From: DONALD DORN <DDORN@CWIS.NET>
To: LOW POWER AMATEUR RADIO DISS <QRP-L@LEHIGH.EDU>
Subject: [80097] FS DIP OSC
Message-ID: <39CCC5C3.B2E6A2B7@CWIS.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All the recent talk about using dip oscillators has reminded me that I have one that I no longer use. It's a Leader model LDM-815, in mint condition, still in the original box with all the coils and instruction booklet. Nine volt battery operated. The freq range is listed as 1.5 to 250 MHz but I have never tried it beyond HF.
\$55.00 shipped US.

73,
Don K5AAR
Lake Eufaula, Ok.

Date: Sat, 23 Sep 2000 11:04:51 -0400
From: "Ken Simpson" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [80098] OT: Need hard drives
Message-ID: <01d401c0256f\$a062c900\$81a9fea9@kensimps>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I know this is off topic, but QRPers are a good bunch,
and I thought some one might be able to help out.

I am needing several IDE hard drives in the 2.1 G range.

We are trying to upgrade the computers at my son's (KC8IOY)
school, and need something in the 2100 Meg range.

We can not afford to put a lot of money into this, but will
pay a reasonable price. We also have 501(c)3 status,
so we could provide a letter for IRS purposes.

Maybe someone has upgraded their PC and has one
collecting dust.

Thanks very much for your help.

Ken Simpson
E-Mail to W8EK@fdt.net or W8EK@juno.com
Voice Phone (352) 732-8400

Date: Sat, 23 Sep 2000 11:23:38 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: Bob Kellogg <ae4ic@nr.infi.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, KLQRP Reflector
<klqrp@applegate.org>, G-QRP Club E-mail Reflector <gqrp@onelist.com>
Subject: [80099] Re: [KLQRP] QRP-L is Resonant
Message-ID: <Pine.BSF.4.21.0009231059490.70838-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bob,

I just thought that I would say thanks for the great Question.

It is one of those questions which everyone wonders about but never seems
to get around to following thru on.

I also have fiddled around with the GDO a bit in the past with similar
results.

I have a couple of old ones downstairs somewhere. :^)

I had a couple of Heathkit ones and an Eico Model. I always wanted a Millen, but could not afford it.

Besides, they have those power cord things. :^)

I also have the MFJ and RF1 & RF2 Analyzers.

Battery operated is much handier I think.

At one time I collected Diagrams and Plans for those things.

Most have probably gone to new homes by now.

There were some interesting models in the RSGB Handbook and some of the other British Publications I have in my library.

Now is the time for a plug for some good books.

The first one I recommend is "The Antenna Experimenter's Guide by Peter Dodd, G3LDO.

Order No. 6087 \$ 30 from ARRL

Lots of good info on Antennas, and Tuning them, etc. Lots of good info on the GDO and Related instruments.

Check the ARRL for RSGB Publications. There are several excellent Antenna Books in the collection.

I recommend # 3770 \$18, 4300 \$ 15, 6087 \$30, R878 \$ 17, RBYA \$ 32.

Heck just get them all :^)

OH Yes, You should have at least One RSGB Handbook to sit next to the ARRL Handbook. You will find that ours is not the only way to look at things: ^)

Their presentation of Schematics is a bit different, but in some ways better.

Have fun..

I really would love to see the collection of responses compiled. I'll bet

QRP ARCI would print it up. It would be something of interest to lots of people. It would be very good for the new kids coming up.

CUL

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

On Sat, 23 Sep 2000, Bob Kellogg wrote:

> Guys,
>
> Forgive me, but I just have to say --- what a great response to my
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>
> Thanks again to all.
>
> --
> 73,
> Bob Kellogg, AE4IC, Greensboro, NC
> Probably, not necessarily. - Benny Hill
>
> ===== KL QRP Club Mailing List =====
> To unsubscribe from this list, send email to listserver@knightlites.org
> and put the text "unsubscribe klqrp" in the message. To post a
> message to the list, send email to klqrp@knightlites.org.
>

Date: Sat, 23 Sep 2000 11:26:53 -0400
From: "The One and Only!" <mitch96@pobox.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [80100] FS. ELDICO GRID DIP METER
Message-ID: <39CCCBBD.B0ACBBAC@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

model 710. one with coils one with out. both for \$45. the one with
coils \$35. one with out coils \$15.
pls. contact off list

--
Mitch ww4ml
Hollywood, Florida

Date: Sat, 23 Sep 2000 11:11:39 -0500
From: "George, W5YR" <w5yr@att.net>
To: kw1nd@megalink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [80101] Re: PVC as a mast: sched 40 v. 80
Message-ID: <39CCD63B.B5233127@att.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Seems to me that PVC could be strengthened a lot by running a proper-sized wooden pole down the center. Anybody tried this? I did this with a fiberglass mast section used to support some satellite antennas back in the early 80's and it really made a difference.

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

Date: Sat, 23 Sep 2000 12:38:52 -0700
From: "Dave Benson" <nn1g@earthlink.net>
To: <hamjoel@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80102] Re: 80M PSK31
Message-ID: <001201c02596\$04f71e40\$3c9b2a3f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Joel-

I shut it down right after I wrapped up with Skip- he couldn't copy me very well last night. The QSO with WA3REY was a very nice ragchew and rock solid at both ends- Tom was running low power also.

I'll be on again tonight after 9 PM.

And leave them channel bouys right where they are, sonny- good thing you're easily distracted! <g>

73- Dave

-----Original Message-----

From: hamjoel@juno.com <hamjoel@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, September 22, 2000 8:05 PM
Subject: Dave NN1G WHERE ARE u

>hIGH thair Folk

> I got on eighty meter psk31 again tonite and heard nn1g talking to

>wa3rey then to kh6ty... on about 3 watts ... whatta signal Dave...
> Well, I wiggled and jiggled things on my k2 but uncle Dave would not
>answer...So I called cq and talked with paul in rhode island, where ever
>that is... hee hee.... now i'm hearing some rtty signals... will see
>iffin I can work them in a bit....
> kinda discouraging not getting to work Dave... as he be's a qrp
>inspiration figure u kneaux... hard as I worked at it I an't been nuttin
>but a persperation figure :-)
> Oh folk, them bees... hornets, yellow jackets stilll bees thair in the
>tree... was gonnna tackle them but decided it was better to go fishing so
>I did.. Found some channel marker bouys that should hold up an antenna
>just fine... was gonna think about that some but the fish started biting
>and my mind changed to fishing....
>see ya.. hey Dave!
>ke1la joel
>in maine
>afraid of the coming cold
>-----
>YOU'RE PAYING TOO MUCH FOR THE INTERNET!
>Juno now offers FREE Internet Access!
>Try it today - there's no risk! For your FREE software, visit:
><http://dl.www.juno.com/get/tagj>.
>

Date: Sat, 23 Sep 2000 13:33:28 -0400
From: Paul Stroud <aa4xx@ipass.net>
To: George Gingell <k3tks@u1.abs.net>
Cc: Bob Kellogg <ae4ic@nr.infi.net>, Low Power Amateur Radio Discussion <qrp-
l@Lehigh.EDU>, KLQRP Reflector <klqrp@applegate.org>
Subject: [80103] Re: [KLQRP] QRP-L is Resonant
Message-ID: <39CCE968.F9969C8D@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

I agree wholeheartedly with Sir George, The First. Many of us
technician types end up scratching our heads as we try to latch on to
valid measuring techniques.

72, Paul AA4XX

George Gingell wrote:

>

> Bob,

> I really would love to see the collection of responses compiled. I'll bet
> QRP ARCI would print it up. It would be something of interest to lots of
> people. It would be very good for the new kids coming up.

>

> CUL

>

> Sir George, The First :^)

Date: Sat, 23 Sep 2000 13:52:05 EDT

From: NB6M@aol.com

To: kw1nd@megalink.net

Cc: qrp-1@lehigh.edu

Subject: [80104] Re: PVC as a mast: sched 40 v. 80

Message-ID: <52.fec9f6.26fe47c5@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

I would recommend using the chain link fence top rail with the top ten feet of Schedule 80 PVC, instead of using all PVC.

The mast here at my home QTH that is made of 30 feet of 3" galvanized pipe, to which I welded steel steps, for easy climbing. The 30' pipe section is guyed at the 25 foot level by three 3/16" stainless steel stranded guy wires.

The next section is a 20' section of chain link fence top rail, which overlaps the top five feet of the 30 pipe section, and is held to the pipe by two large U-bolts, with spacers between the 3" pipe and the fence rail. The top section is a six foot section of schedule 80 PVC, which slips over the smaller diameter end of the chain link fence top rail, and is fastened by two stainless steel 1/4" bolts with fender washers and lock nuts. At the capped, top end of the PVC section, I fastened a pulley, using a small stainless steel U-bolt.

The mast sits in a socket in a steel plate that is bolted to my concrete patio at the back edge of my house. At the rafter level of the roof, the mast is fastened by 1/8" thick by 2.5" wide steel straps to two of the rafters. This arrangement, along with the guy wires at the 25' level, secures the 30' pipe section quite well.

When I want to raise or lower the 25' long top section of the mast, consisting of the 20' length of chain link fence top rail and the 6 foot

section of PVC, I climb the Pipe section using the welded-on steps (and a harness and safety line), loosen the U-bolt clamps which attach the top section to the 30' pipe, and slide the top section up or down as needed.

With the lower, 3" diameter galvanized pipe section seated in a steel socket plate, fastened to the rafters, and guyed at the 25' level, and with the 5 foot overlap and U-bolt attachment of the chain link fence rail and PVC top section, no guying is needed at the top of the mast.

Normally, I don't have to raise or lower the upper section at all. My antenna system for all HF bands consists of an 80 meter inverted Vee Dipole, center fed with 450 Ohm ladder line. The ladder line is led off at an angle from the metal mast and twisted so that there is a turn about every couple of feet. Leading it away from the metal mast and twisting it both helps for reducing any unbalance or effect the nearby metal might have, and helps prevent the ladder line from flopping in the wind, which would soon wiggle the wire in two. I use a nylon (3/16") line (rope, to you non-sailors) running through the pulley at the top of the 50' mast to hoist or lower the inverted Vee when desired.

I suggest using the chain link fence top rail section and an upper section of schedule 80 PVC because if you set the bottom end over a steel rod driven into the ground, or into a socket plate bolted to a concrete surface, and then fasten the fence section securely at the rafter level of your hours, the antenna and feed line would take care of any further "guying" the mast might need at the top, so no extra guys would be needed.

With an all PVC 30' mast, you would need guys at the top, and perhaps in the center as well, in addition to your antenna wires, which makes for a much more "busy" and less attractive installation.

72

Wayne NB6M

Date: Sat, 23 Sep 2000 10:16:41 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: qrp-l@lehigh.edu
Cc: Bruce Hopkins KL7H/C6A <kl7h@arrl.net>
Subject: [80105] AL7FS Inbox died - WScript.KakWorm virus
Message-ID: <39CCF389.72084CF7@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Those of you who sent me private email in the last four weeks while I was traveling, all my inbox email is gone. Norton AntiVirus (with updated dB files) identified the WScript.KakWorm virus but did not know how to fix it. The only way was to delete all my inbox files from the computer and let Netscape recreate a new Inbox.

Alaska QRP Club requests. I noticed a few in the list before it got blasted. Please send a private email on your request.

Bruce, please resend your first tutorial to me on how to maintain the Alaska QRP club membership lists.

Thank you.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska

QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>

QRP ARCI #6754 Check out <http://www.qrparci.org/>

<http://www.qsl.net/al7fs/> <mailto:al7fs@pobox.alaska.net>

Date: Sat, 23 Sep 2000 14:17:15 EDT

From: Slqghp@aol.com

To: qrp-l@lehigh.edu

Subject: [80106] HB - 455 KHz IFs transformers using toroids

Message-ID: <b6.aed77cb.26fe4dab@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Does anybody have experience winding 455 KHz IF transformers on FT37-43 or whatever toroids? It seems to me that they would be ideal for the purpose, especially for my crude manhattan efforts.

What brought this to mind was the little receiver in the September QST. Everything was in my junkbox except that IF can.

TIA & 72

Hap, WA3PTG

Wilmington DE

Date: Sat, 23 Sep 2000 14:39:40 -0400

From: "The One and Only!" <mitch96@pobox.com>

To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [80107] FS EICO grid dip meter
Message-ID: <39CCF8EC.6C0154D4@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry for the typo.
the gdo's are eico model 710 NOT eldico/
--
Mitch ww4ml

Date: Sat, 23 Sep 2000 15:12:11 EDT
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [80108] Need help with TH 47 -A HT
Message-ID: <2f.ae46602.26fe5a8b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

HI Gang,
I'm working on a Kenwood TH-47-A 440 HT.
About 7 years old.
The antenna wire broke away from the PC board.
I have no paper work and cannot find where the wire is soldered to the PC board.
This wire is only an inch long and I searched for an hour with in reach of that wire on all the small boards.
No luck finding the old cold solder joint. Anyone know where this wire goes?
Many thanks in advance
Bob
WA2HOQrp <TM>

Date: Sat, 23 Sep 2000 15:42:14 -0400
From: Tom M <tjmc@erols.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [80109] On the air 28715
Message-ID: <39CD0796.AC474D73@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

10 m is still working , just got OE6KYG #1331 and K5NU #381 (booming sig) on USB.

Jump in, the water's fine!

best

Tom aa2vk

--

```
*****
*   Member of NorCal, NJQRP, SGCI           *
*                                           *
*   Personal web page : WWW.EROLS.COM/TJMC  *
*****
```

Date: Sat, 23 Sep 2000 15:43:24 EDT
From: K2UD@aol.com
To: AeroPlyCo@aol.com
Cc: qrp-1@lehigh.edu
Subject: [80110] Tuber power supply
Message-ID: <48.b3cd1f0.26fe61dc@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In the schematic for the Tuber power supply, there appears a 10uf 35V electrolytic capacitor on the output side of the supply. Will this hold up well with 200V expected on the output? Or is it a goof?

I like this idea of generating HV DC also, it reminds me of circuits in 10M amateur amplifiers (read that, CB footwarmers!).

72

Howard Kraus, K2UD

Date: Sat, 23 Sep 2000 15:51:25 EDT
From: K9nk@aol.com
To: <qrp-1@lehigh.edu>
Subject: [80111] FS - St. Louis Vertical - SD-20 & W6MMA Coil
Message-ID: <85.102ffc7.26fe63bd@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

FS -- St. Louis Vertical. Includes the SD-20 pole and the W6MMA 40-10 mtr coil.
Works great!

Price: \$75 money order and I will pay for USPS shipping.

Inquires email to: k9nk@aol.com

Date: Sat, 23 Sep 2000 15:59:50 -0400
From: Pete Burbank <plburbank@kih.net>
To: Slqghp@aol.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80112] Re: HB - 455 KHz IFs transformers using toroids
Message-ID: <3.0.32.20000923155946.0075d514@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:17 PM 9/23/00 EDT, Slqghp@aol.com wrote:
>Does anybody have experience winding 455 KHz IF transformers on FT37-43
Hap,
I think you would be better off scrounging up an old radio at a
yard sale.
The "Transistor Radio Handbook" by Stoner and Farnsworth discusses
making IF Xformers.....180 turns of #38 wire etc.
Not for me HI!
73 Pete NV4V

Date: Sat, 23 Sep 2000 16:13:15 -0400
From: "Bruce & Tosh Hopkins" <makai@grouper.batelnet.bs>
To: <qrp-l@Lehigh.EDU>
Cc: "glowbugs" <glowbugs@piobaire.mines.uidaho.edu>
Subject: [80113] Glows in the Dark... Mike W3IRZ
Message-ID: <002201c0259a\$bede39c0\$be0130ce@islandboy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang...

Just had to tell you about a simple QSO that I had on 40 meters last
night... Central Bahamas to New York with 2 watts!!! No big deal... But
wait, there's more...

Mike - W3IRZ kitted a limited number of transmitter kits for the North
Georgia QRP Club called the NoGa-80... I was very fortunate to be able to

get one... Mike was only able to make a few kits because most of the parts came out of peoples junk boxes, you see, this is a two tube 2 Watt transmitter... It uses a 12V wallwart for the filaments, and rectifies and filters the 115VAC house voltage to come up with 150VDC for the B+... Mike says just about any audio or transmitting pentode will work with perhaps a few small parts adjustments... My rig uses two "Mighty 6AR5" firebottles in parallel to deliver appx. 2 Watts to the antenna... A simple mod to the coil turned my rig into a two-bander, 80/40... I built it on a small cedar box that some Alaskan smoked salmon came in... Mike's original version was built in an Altoids tin with the power supply in a separate plastic container... This kind of project lends itself to creative packaging... I spent a couple of very happy days putting this little jewel together, and it has rekindled my glowbug juices...

This is fun !!! If it sounds half as nice on the receive end as it does in my monitor receiver, I am pleased... Now to put that 80/40 regen receiver together... Where's my kerosene lamp ??? I will be on most evenings between 9PM and 11PM eastern time zone... My main operating frequencies will be 7.040 or 7.050 and 3.579...

Mike has been kind enough to let me reproduce this circuit on my webpage so others might enjoy this rig... I will also put up the circuit for his nifty 12V two tube regen receiver that might make a good mate... I have not built the receiver yet but once parts arrive on the mailboat, I will be giving it a try... If you have any leanings toward "Hollow State", this is fun !!! Just remember, that you will be dealing with possibly "Lethal Voltages", so if you are not competent with this, do find an Elmer that is to keep you safe !!! Page should be up by the time you read this... Look under GlowBug on my site below...

Take care and have fun... Keep-em-Glowing...

72 - Bruce - KL7H/C6A

<http://www.qsl.net/kl7h>

Date: Sat, 23 Sep 2000 17:02:48 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [80114] Re: HB - 455 KHz IFs transformers using toroids
Message-ID: <200009232138.RAA26022@wolf.ncia.net>
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> Does anybody have experience winding 455 KHz IF transformers on FT37-43 or

Winding a 455Khz transformer would be a bit insane. You gotta have a
junk AM transistor radio around somewhere you can steal one from..

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Sat, 23 Sep 2000 17:02:47 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: K2UD@aol.com
Cc: qrp-1@lehigh.edu
Subject: [80115] Re: Tuber power supply
Message-ID: <200009232138.RAA26031@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Howard,

> In the schematic for the Tuber power supply, there appears a 10uf 35V
> electrolytic capacitor on the output side of the supply. Will this hold up
> well with 200V expected on the output? Or is it a goof?
>

That's got to be a typo. 350V would be more like it! I'd expect a 35V
cap with 200 volts across it would explode before you could say "Oh
sh..." A good sized HV filter cap can be had from any junk TV set or
off-line switcher PS.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Sat, 23 Sep 2000 15:21:24 -0700
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80116] Tuna Tin Active Tonight / Radial Planting

Message-ID: <000f01c025ac\$b5e41440\$5f11f4cc@jism>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Will be firing up the TT II tonight hoping to find a hole between the frenzied RTTYrs' contesting.

Will be CQing at 0300, 0400 and 0500Z on 7040.2. Will also be on at 1000Z in the morning.

The additional radials seemed to have made an improvement in antenna efficiency. (* see below). Was on this morning and netted 4 QSO's , all in reply to the little Tin's CQ....had a pipeline into Michigan with 3 contacts (OH and WV where are you??) and a two-way TT2-TT2 solid 15 minute QSO with KA0ENU in Tennessee for a new state.

I still need the states that are not on this list. If we could make a firm sked, I can get on any time for you. Condx to the east coast/central/southern states are prime at 1000Z - 1200Z. Let me know and I'll be there.

AK	IA	MA	NJ	SD	WA
AZ	ID	MI	NM	TX	
CA	IL	MN	NY	TN	
CO	KS	MO	OR	UT	
HI	LA	MT	PA	VA	

* not sure where I found out about this radial "planting" method, perhaps on the TopBand Reflector but it works very well. I just layed out the radials on the lawn and then using 2" carpenter's (U shaped) staples, pinned the wires into the grass. After 2 weeks, most of the radials have started to grow over and are almost invisible. In a few more weeks I am sure they will be out of sight and firmly "planted". Cut the grass today and the radials stayed put with no problem....certainly a better method than trying to bury them individually.

72 de Steve VE7SL

Date: Sat, 23 Sep 2000 18:45:41 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [80117] wire/rope ant... need help
Message-ID: <20000923.184543.-265063.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

may high y'all....

yea it an't no secret huh? well I ban thinking again.... and I needs
some confirmation on what thought come up during that hour....

I use rad shack twin lead for lean in from my antennas and I was
wondering what I could do iffin I put up two 66ft dipoles about 33 foots
apart and ran equal amounts of twinlead to the radio.... and then added
or subtracted a quarter wavelength or meaux from one or the other lead
in..

seems to me, at least on forty this should turn my pattern in a circle
as I add or subtract twinlead... any thoughts would be apreciated...

ke1la joel
in maine
wondering

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<http://dl.www.juno.com/get/tagj>.

End of QRP-L Digest 1953
